My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the

invention entitledMODI	FIED RIBOZ	YMES		<del></del>	
	•		•	the specifica	tion of which
is attached hereto	).	1001	·		
X was filed on	23rd Septe	mber 1991			as Application
Serial No. PCT.	/EP91/0181	1 ar	nd was amended on		·
claims, as amended by any ame I acknowledge the duty to	endment referred disclose informati Regulations, §1.5 ority benefits und listed below and h	to above. ion which is ma 56 (a). der Title 35, Ut nave also identif	ntents of the above-identified sterial to the examination of this nited States Code, §119 of any fied below any foreign application which priority is claimed:	application foreign app	in accordance
PCT/EP90/01731	PCT	•	12 OCTOBER 1990	) <u>x</u>	
(Number)	(Country)		(Day/Month/Year Filed)	Yes	No
(Number)	(Country)		(Day/Month/Year Filed)	Yes	No
(Number)	(Country)		(Day/Month/Year Filed)	Yes	No
Taylor, Jr., Reg. No. 19,848; Samuel B. 24,939; William E. Thomson, Jr., Reg. No. 26,811; Coe A. Bloomberg, Reg. No. 26, Jansen, Reg. No. 29,395; Robert W. Dic. 29,898; Jeffrey M. Olson, Reg. No. 30,7.	Stone, Reg. No. 19,297 No. 20,719; Richard E. I ,605; J. Donald McCart kerson, Reg. No. 29,914 90; Steven D. Henuning	7; Douglas E. Olson, Lyon, Jr., Reg. No. 2 hy, Reg. No. 25,119; 4; Roy L. Anderson, 1 er, Reg. No. 30,755;	R. Solum, Jr., Reg. No. 20,467; James W. Reg. No. 22,798; Robert E. Lyon, Reg. No. 16,300; John D. McConaghy, Reg. No. 26, John M. Benassi, Reg. No. 27,483; Jame Reg. No. 30,240; David B. Murphy, Reg. I Jerrold B. Reilly, Reg. No. 32,293; and geles, California 90017, Telephone (619) 2	o. 24,171; Robert 773; William C. s H. Shalek, Reg. No. 31,125; Jame	C. Weiss, Reg. No. Steffin, Reg. No. . No. 29,749; Allan V
•			ESQ., at telephone no		
Address all correspondence to	Street, Su	ite 3400,	Los Angeles, CA	90017	•
mation and belief are believed to statements and the like so mad United States Code and that s issued thereon.	o be true; and fur le are punishable uch willful false	rther that these: by fine or imp statements may	isonment, or both, under section jeopardize the validity of the	tion 1001 of application	Title 18 of the or any patents
Full name of sole or first invent	orF	RITZ ECKS	STEIN		
Inventor's signature			D	ate:	
Residence Holund	ersteg 6,	Gottinger	w-3400, GERMANY		
CitizenshipGERMAN	Υ				
Post Office Address Holund	ersteg 6,	Gottinger	w-3400, GERMANY		

Post Office Address \_\_\_\_

	OLA	AF HE	EINDENREICH	1		
Full name of inventor					Date:	
Inventor's signature					CDDMANU	_
Residence	Karolinenweg	15,	Gottingen	W-3400,	GERMANI	
Citizenship	GERMANY				CDDVANU	
Post Office Address	Karolinenweg	<u>15,</u>	Gottingen	W-3400,	GERMANY	
Full name of inventor						
Full name of inventor				·	Date:	
Inventor's signature						
Residence						
Citizenship						
Post Office Address						
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Residence						
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Citizenship						
Post Office Address						
Full name of inventor		·				
Inventor's signature					Date:	
Residence						
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5	Serial No. PC	T/EP91/01	.811	and was amended on		······························
claims, as ame I acknowle with Title 37, G I hereby constent or inven	nded by any and and the duty to the duty to the code of Federal chairs foreign pater's certification a filing date	mendment refe o disclose infor al Regulations, priority benefits e listed below a e before that of	rred to above. mation which is n §1.56 (a). under Title 35, l nd have also ident	contents of the above-identifinaterial to the examination of United States Code, §119 of tified below any foreign applion which priority is claimed:	f this application any foreign ap ication for pate	n in accordance
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Address all tele	phone calls to_	RICHARD	J. WARBURG	G, ESQ. at telephone no	(619) 5	552-8400
Address all cor	respondence to	RICHARD Street,	J. WARBURG	G, ESQ. at telephone no G, ESQ., LYON & L D, Los Angeles,	(619) 5 YON, 611 CA 90017	West Six
I hereby d mation and bel statements and United States issued thereon	respondence to leclare that all s lief are believed I the like so m Code and that	RICHARD STREET, statements mad I to be true; and ade are punisha such willful fa	J. WARBURG Suite 3400 le herein of my ow d further that thes able by fine or im alse statements ma	G, ESQ., LYON & L D, Los Angeles, vn knowledge are true and the se statements were made with apprisonment, or both, under ay jeopardize the validity of	(619) 5 YON, 611 CA 90017 at all statements the knowledge Section 1001 of the application	West Six  made on infor that willful fals f Title 18 of th or any patent
I hereby d mation and bel statements and United States issued thereon	respondence to leclare that all s lief are believed I the like so m Code and that	RICHARD STREET, statements mad I to be true; and ade are punisha such willful fa	J. WARBURG Suite 3400 le herein of my ow d further that thes able by fine or im alse statements ma	G, ESQ., LYON & L D, Los Angeles, vn knowledge are true and the se statements were made with apprisonment, or both, under ay jeopardize the validity of	(619) 5 YON, 611 CA 90017 at all statements the knowledge Section 1001 of the application	West Six  made on infor that willful fals f Title 18 of th or any patent
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	OL P	AF H	EINDENREIC	1 			
Full name of inventor				•	Date:		
Inventor's signature	Karolinenweg	1 5	Cottingen	W-3400 -	GERMANY		
Residence	Karolinenweg	15,					
Citizenship	GERMANY		•				
Post Office Address		15,	Gottingen	W-3400.	GERMANY		
Full name of inventor		<u> </u>					
Inventor's signature				·	Date:		
Residence							
Citizenship							
Post Office Address	·				·		
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Full name of inventor							
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Full name of inventor							
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Residence	·						
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My residence, post office address and citizenship are as stated below next to my name,

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invention entitledMODI	FIED RIBOZ					<del>.</del>
invention climes	-			•	the spec	cification of which
is attached hereto	0.					
X was filed on	23rd Septe	mber	1991			as Application
Serial No. PCT	/EP91/0181	1	and	i was amended on		·
I hereby state that I have claims, as amended by any am I acknowledge the duty to with Title 37, Code of Federal I hereby claim foreign propatent or inventor's certificate certificate having a filing date Prior Foreign Application(s):	endment referred disclose informat Regulations, §1.5 iority benefits und listed below and h	to abov ion whic 56 (a). der Title ave also	e. h is mate 35, Uni identifie	erial to the examination of ted States Code, §119 of ted below any foreign appli	this applica	tion in accordance application(s) for
PCT/EP90/01731	PCT			12 OCTOBER 19	990 x	
(Number)	(Country)			(Day/Month/Year Filed)	Yes	No
(Number)	(Country)			(Day/Month/Year Filed)	Yes	No No
(Number)	(Country)			(Day/Month/Year Filed)	Yes	No No
Kindly recognize as associate attorney: Taylor, Jr., Reg. No. 19,848; Samuel B. 24,939; William E. Thomson, Jr., Reg. v 26,811; Coe A. Bloomberg, Reg. No. 26 Jansen, Reg. No. 29,395; Robert W. Die 29,893; Jeffrey M. Olson, Reg. No. 30,7 Suzanne L. Biggs, Reg. No. 30,158 of L	Stone, Reg. No. 19,29. No. 20,719; Richard E. i,605; J. Donald McCarr. ckerson, Reg. No. 29,91 190; Steven D. Henuning	7; Douglas I Lyon, Jr., I thy, Reg. No 4; Roy L. A ger, Reg. No	E. Olson, R Reg. No. 26 p. 25,119; J nderson, Re p. 30,755; J	eg. No. 22,798; Robert E. Lyon, Re ,300; John D. McConaghy, Reg. No ohn M. Benassi, Reg. No. 27,483; g. No. 30,240; David B. Murphy, F errold B. Reilly, Reg. No. 32,293; a	g. No. 24,171; I o. 26,773; Willia Iames H. Shalek Reg. No. 31,125; und	Robert C. Weiss, Reg. No. im C. Steffin, Reg. No. i, Reg. No. 29,749; Allan W.
Address all telephone calls to	RICHARD J.	WARE	BURG,	ESQ. at telephone no.	(619)	552-8400
Address all correspondence to	RICHARD J.	WARE	BURG	ESO., LYON & L	YON, 61	T Mest Sixti
I hereby declare that all st mation and belief are believed statements and the like so ma United States Code and that sissued thereon.	to be true; and fu de are punishable such willful false	rther tha by fine statemer	t these st or impri its may	sonment, or both, under jeopardize the validity of	Section 100 the applica	1 of Title 18 of the tion or any patents
Full name of sole or first inven	tor	FRITZ	ECKS	rein		
Inventor's signature					Date:	
nuidana Holund	lersteg 6,	Gott	ingen	W-3400, GERMA	NY	
Citizenship GERMAN	1A					
Post Office Address Holund	lersteg 6,	Gott	ingen	W-3400, GERMAN	Υ	<u> </u>

	OL	AF H	EINDENREIC	d		<u> </u>
Full name of inventor					Date:	
Inventor's signature			0-442		-	
Residence	Karolinenweg	15,				
Citizenship	GERMANY		-			
Post Office Address	7.	15,	Gottingen	W-3400.	GERMANY	
Post Office Address						
Full name of inventor						
Inventor's signature					Date:	
Residence			<del></del> -			
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Inventor's signature					Date:	
David soca						
Residence		*	<i>:</i> .			
Citizenship						
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Full name of inventor						
					Date:	
Residence						
Citizenship						
Post Office Address	·					

## WOLFGANG PIEKEN Full name of inventor \_\_\_\_ \_ Date: \_\_\_\_ Inventor's signature \_\_\_ 2860 Wilderness Place, Boulder, CO 80301, USA Residence \_\_\_\_ **GERMANY** Citizenship \_\_\_ 2860 Wilderness Place, Boulder, CO 80301, USA Post Office Address \_ FRITZ BENSELER Full name of inventor \_\_\_\_\_ Inventor's signature \_\_\_\_\_\_ Date: \_\_\_\_\_ Residence Neuendorfer Str. 14, D-37130 Gleichen/Etzborn, GERMANY GERMANY Citizenship \_\_\_\_\_ Post Office Address Neuendorfer Str. 14, D-37130 Gleichen/Etzborn, GERMANY DAVID B. OLSEN Full name of inventor \_\_\_\_ Date: \_\_\_\_\_ Inventor's signature \_\_\_\_ Residence WP44-B122, West Point, PA 19486, USA USA Citizenship \_\_\_\_ Post Office Address WP 44-Bl22, West Point, PA 19486, USA DAVID M. WILLIAMS Full name of inventor \_\_\_ \_\_\_\_\_ Date: \_\_\_ Inventor's signature \_\_

Citizenship BRITISH

Post Office Address 82 Mill End Road, Cherry Hinton, Cambridge CB14JP, ENGLAND

Residence 82 Mill End Road, Cherry Hinton, Cambridge CBl 4JP, ENGLAND

Docke o.	

#### **ASSIGNMENT**

WHEREAS	the	undersign	ned [here	einai	fter	(collec	ctively)	
"ASSIGNOR"]	have	invented	certain	new	and	useful	improvements	ir

(Title of Application)

Modified Ribozymes

for which an application for United States Letters Patent was executed concurrently herewith unless otherwise indicated.

WHEREAS (Name and address of Assignee) Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.

Wissenschaften e.V. Bunsenstraße 10 W-3400 Göttingen

a German corporation (hereinafter "ASSIGNEE") is desirous of acquiring the entire right, title and interest in the same:

Now, therefore, in consideration of the sum of one dollar (\$1.00), the receipt whereof is hereby acknowledged, and other good and valuable consideration, the said ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE, full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor.

Said ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE, as the assignee of the entire right, title, and interest in and to the same, for the sole use and for the use of its successors, legal representatives, and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by said ASSIGNOR had this assignment and sale not been made.

Witness, the hand and seal of the ASSIGNOR on the date(s) indicated.

Date(s)	Signature(s)				
<u>08. 10.92</u>	T. Xlum F. Eckstein				
<u> </u>	Wolfgang Pieken				
OPAO. 92	Juit Benseler				
	David B. Olsen				
	David M. Williams				
04 10 82	C. Wickern Colaf Heidenreich				



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#### **ASSIGNMENT**

WHEREAS the undersigned [hereinafter (collectively) "ASSIGNOR"] have invented certain new and useful improvements in

(Title of Application)

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Modified Ribozymes

for which an application for United States Letters Patent was executed concurrently herewith unless otherwise indicated.

WHEREAS (Name and address of Assignee)

Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V. Bunsenstraße 10 W-3400 Göttingen

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	Date(s)	signature(s)
	08. 60.92	F. Eckstein
		Wolfgang Pieken
	0210.12	Inik Benseler
<u>.</u>	OF. 18.92	David B. Olsen
		David M. Williams
	178 10.32	O. Herclema Olaf Heidenreich

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Docket	No.

#### ASSIGNMENT

WHEREAS the undersigned [hereinafter (collectively) "ASSIGNOR"] have invented certain new and useful improvements in

(Title of Application)

Modified Ribozymes

for Which an application for United States Letters Patent was executed concurrently herewith unless otherwise indicated.

WHEREAS (Name and address of Assignee)

Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V. Bunsenstraße 10 W-3400 Göttingen

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Date(s)	Signature(s)		
08.10.92	F. Eckstein		
	Wolfgang Pieken		
09.10.12	Fritz Benseler		
	David B. Olsen		
08.10.92	Shulliams David M. Williams		
08.10.52	C. Hendemi Q Olaf Heidenreich		

Docket No.

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Modified Ribozymes

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Date(s)	Signature(s)
08. 60.92	F. Eckstein:
08.10.92	Wolfgang Pieken
0790.92	Init Penseler Fritz Benseler
	David B. Olsen
	David M. Williams
08.10.32	O. Herdemi Olaf Heidenreich

My residence, post office address and citizenship are as stated below next to my name,

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is attached h	ereto.				
x was filed on	23rd Septe	mber 1991	·	a	s Application
Serial No. <u>I</u>	CT/EP91/0181	.1 an	d was amended on		
I acknowledge the dut with Title 37, Code of Fed	amendment referred y to disclose informat leral Regulations, §1.: n priority benefits un- cate listed below and late before that of the	to above. tion which is mat 56 (a). der Title 35, Un have also identifi	tents of the above-identified spacerial to the examination of this sited States Code, §119 of any sed below any foreign application which priority is claimed:	application foreign app	in accordance
PCT/EP90/0173]			12 OCTOBER 1990	x	
(Number)	(Country)		(Day/Month/Year Filed)	Yes	No
(Number)	(Country)		(Day/Month/Year Filed)	Yes	No
(Number)	(Country)		(Day/Month/Year Filed)	Yes	No
The second secon	-11	and/or agent(c) to	o prosecute this application and	to transact	all business in
24,939; William E. Thomson, Jr., 26,811; Coe A. Bloomberg, Reg. N. Jansen, Reg. No. 29,395; Robert V. 29,898; Jeffrey M. Olson, Reg. No.	Reg. No. 20,719; Richard E. lo. 26,605; J. Donald McCarr V. Dickerson, Reg. No. 29,91 . 30,790; Steven D. Henuning	Lyon, Jr., Reg. No. 20 thy, Reg. No. 25,119; 4; Roy L. Anderson, R er, Reg. No. 30,755;	Reg. No. 22,798; Robert E. Lyon, Reg. No. 5,300; John D. McConaghy, Reg. No. 26,7. John M. Benassi, Reg. No. 27,483; James I eg. No. 30,240; David B. Murphy, Reg. No Jerrold B. Reilly, Reg. No. 32,293; and eles, California 90017, Telephone (619) 55.	73; William C. : H. Shalek, Reg. p. 31,125; James	Steffin, Reg. No. No. 29,749; Allan W.
	RICHARD J.	WARBURG.	ESO (	619) 55	52-8400
Address all telephone calls t			at telephone no		
Address all correspondence	RICHARD J.	WARBURG, lite 3400,	ESQ., LYON & LYON Los Angeles, CA	90017.	Vest Sixth
mation and belief are belief	ved to be true; and fu made are punishable	rther that these s	knowledge are true and that all tatements were made with the k isonment, or both, under Section jeopardize the validity of the a	nowledge tr	Title 18 of the
Full name of sole or first in	ventor	RITZ ECKS	TEIN		
Inventor's signature	Fi ( Ill	). , <b>L</b>	Dat	e: <u>~</u> 22.	07.93
	indersteg 6,		W-3400, GERMANY		
Citizenship GERM	1ANY				
	understeg 6,	Gottingen	W-3400, GERMANY		

Full name of inventor		WOLFG	ANG PIE	KEN				
Inventor's signature		02	P			Date:	71	25/23
Residence	2860	Wildermess	Place,					-
Citizenship	GERMA				·			·
Post Office Address	2860	Wilderness	Place,	Boulder,	co 8	30301,	USA	
			•		•			
Full name of inventor _		FRIT	Z BENSEI	LER				
Inventor's signature						Date:		
Residence	Meuen	dorfer Str.	14, D-	·37130 Gl	eichen	/Etzbo	orn, (	GERMANY
Citizenship	GERMA	NY						
Post Office Address	Neuen	dorfer Str.	. 14, D-	-37130 Gl	eicher	/Etzbo	orn, (	GERMANY
•								
Full name of inventor _		DAVII	B. OLS	EN				
Inventor's signature	<del></del>					Date: .		
Residence	WP44-	Bl22, West	t Point	, PA 194	86 , U	SA		
Citizenship	USA			· · · · · · · · · · · · · · · · · · ·				
Post Office Address	WP 44	-B122, Wes	t Point	, PA 194	86 , U	SA		
			٠				•	
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